RECEIVED

MAR 1 4 2003

TECH CENTER 1600

1600

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/836,636**

DATE: 03/10/2003
TIME: 12:54:16

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\03102003\I836636.raw**

```
 3 <110> APPLICANT: Venkatraman, et al.
 5 <120> TITLE OF INVENTION: MACROCYCLIC NS-3-SERINE PROTEASE INHIBITORS OF HEPATITIS C
VIRUS
 6         COMPRISING ALKYL AND ARYL ALANINE P2 MOIETIES
 8 <130> FILE REFERENCE: IN01155-K-WI
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/836,636
11 <141> CURRENT FILING DATE: 2001-04-17
13 <150> PRIOR APPLICATION NUMBER: 60/198,204
15 <151> PRIOR FILING DATE: 2000-04-19
17 <160> NUMBER OF SEQ ID NOS: 5
19 <170> SOFTWARE: PatentIn version 3.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 8
23 <212> TYPE: PRT
24 <213> ORGANISM: Artificial Sequence
26 <220> FEATURE:
27 <223> OTHER INFORMATION: substrate peptide
29 <220> FEATURE:
30 <221> NAME/KEY: MOD_RES
31 <222> LOCATION: 1
32 <223> OTHER INFORMATION: ACETYLATION
35 <220> FEATURE:
36 <221> NAME/KEY: MISC_FEATURE
37 <222> LOCATION: 7
38 <223> OTHER INFORMATION: Alanine or Proline
41 <220> FEATURE:
42 <221> NAME/KEY: MISC_FEATURE
43 <222> LOCATION: 8
44 <223> OTHER INFORMATION: Norvaline
47 <220> FEATURE:
48 <221> NAME/KEY: MISC_FEATURE
49 <222> LOCATION: 8
50 <223> OTHER INFORMATION: Carboyx terminal group esterified with one of 3-nitrophenol,
4-
51         nitrophenol, 7-hydroxy-4-methyl-coumarin and 4-phenylazophenol
54 <400> SEQUENCE: 1
W--> 56 Asp Thr Glu Asp Val Val Xaa Xaa
57 1                 5
60 <210> SEQ ID NO: 2
61 <211> LENGTH: 6
62 <212> TYPE: PRT
63 <213> ORGANISM: Artificial Sequence
65 <220> FEATURE:
66 <223> OTHER INFORMATION: competitive inhibitor peptide
```

68 <220> FEATURE:

RAW SEQUENCE LISTING   DATE: 03/10/2003
PATENT APPLICATION: **US/09/836,636**   TIME: 12:54:16

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\03102003\I836636.raw**

```
 69 <221> NAME/KEY: MISC_FEATURE
 70 <222> LOCATION: 2
 71 <223> OTHER INFORMATION: gamma-carboxyglutamic acid (D-Gla)
 74 <220> FEATURE:
 75 <221> NAME/KEY: MISC_FEATURE
 76 <222> LOCATION: 5
 77 <223> OTHER INFORMATION: cyclohexyl alanine
 80 <220> FEATURE:
 81 <221> NAME/KEY: MOD_RES
 82 <222> LOCATION: 1
 83 <223> OTHER INFORMATION: ACETYLATION
 86 <400> SEQUENCE: 2
```
W--> **88 Asp Xaa Leu Ile Xaa Cys**
```
 89 1               5
 92 <210> SEQ ID NO: 3
 93 <211> LENGTH: 8
 94 <212> TYPE: PRT
 95 <213> ORGANISM: Artificial Sequence
 97 <220> FEATURE:
 98 <223> OTHER INFORMATION: competitive inhibitor peptide
100 <220> FEATURE:
101 <221> NAME/KEY: MOD_RES
102 <222> LOCATION: 1
103 <223> OTHER INFORMATION: ACETYLATION
106 <220> FEATURE:
107 <221> NAME/KEY: MISC_FEATURE
108 <222> LOCATION: 8
109 <223> OTHER INFORMATION: norvaline
112 <400> SEQUENCE: 3
```
W--> **114 Asp Thr Glu Asp Val Val Ala Xaa**
```
115 1               5
118 <210> SEQ ID NO: 4
119 <211> LENGTH: 8
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: competitive inhibitor peptide
126 <220> FEATURE:
127 <221> NAME/KEY: MOD_RES
128 <222> LOCATION: 1
129 <223> OTHER INFORMATION: ACETYLATION
132 <220> FEATURE:
133 <221> NAME/KEY: MISC_FEATURE
134 <222> LOCATION: 8
135 <223> OTHER INFORMATION: norvaline
138 <400> SEQUENCE: 4
```
W--> **140 Asp Thr Glu Asp Val Val Pro Xaa**
```
141 1               5
144 <210> SEQ ID NO: 5
```

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/836,636

DATE: 03/10/2003
TIME: 12:54:16

Input Set : A:\EP.txt
Output Set: N:\CRF4\03102003\I836636.raw

```
145 <211> LENGTH: 25
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: cleavage sequence
152 <400> SEQUENCE: 5
154 Ser Ser Gly Ala Asp Thr Glu Asp Val Val Cys Cys Ser Met Ser Tyr
155 1               5                   10                  15
158 Thr Trp Thr Gly Ala Leu Val Thr Pro
159             20              25
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/10/2003
PATENT APPLICATION: **US/09/836,636** TIME: 12:54:17

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\03102003\I836636.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 7,8
Seq#:2; Xaa Pos. 2,5
Seq#:3; Xaa Pos. 8
Seq#:4; Xaa Pos. 8

VERIFICATION SUMMARY
PATENT APPLICATION: **US/09/836,636**

DATE: 03/10/2003
TIME: 12:54:17

Input Set : **A:\EP.txt**
Output Set: **N:\CRF4\03102003\I836636.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0